BRUHATH BENGALURU MAHANAGARA PALIKE,DASARAHALLI ZONE

Office of Executive Engineer

SCHEDULE -B

Name Of Work:Construction of Sree Shakthi Bhavan at Abbigere in Ward No.12 Shettyhalli Sub Division

Sl. No	Descrption of Work	Unit	Qty	Sanctioned Rate	
				In Figures (Rs.)	In Wards (Rs.)
1	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum	384.00	240	
2	Earth work excavation for foundation of building water sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of colds etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum	348.50	399	
3	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum	40.75	2500	
4	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum	62.07	6500	
5	Providing and constructing granite /trap/ baslat size stone masonry in foundation with cement mortar 1:6, stones hammerd dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum	55.77	6000	
6	Providing and constructing granite /trap/ baslat size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15cms high, bond stones at two m. apart in each course including cost of materials, labour, curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum	17.91	6000	

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7	Providing ruled pointing to coursed stone masonry with cement mortar 1:3 20mm deep, after raking joints to depth of 20mm necely lining, including cost of materials, labour, curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	35.73	110	
8	Providing and laying in position plain cement concrete of nominal mix 1:2:4 using 20mm and down size graded granite metal machine mixed concrete liad in layers not exceeding 15cms thick well compacted in foundation plinth and cills including cost of all materials, labour HOM of machinery, curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum	9.30	6000	
9	Filling avaialble excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum	348.50	140	
10	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum	175.08	8000	
11	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	14.40	500	
12	Providing and fabricating TMT . Steel (cold, Twisted) reinforcement for R.C.C. work including straightening, cutting, bending, hooking,placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design(laps and wasteage shall not measured and paid) cost of materials. labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Tonne	21.89	82000	

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13	Providing and removing centering shuttering strutting propping etc., and removal of form work for columns, pillars, abutments, post and struts square/ rectangular/ polygon in plan including cost of all materials labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	231.70	400	
14	Providing and removing centering shuttering strutting propping etc., and removal of form work for sides and soffits of beams beam houchings cantilever girders bressumers and lintels not exceeding 1m in depth including cost of all materials, labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	602.84	280	
15	Providing and removing centering shuttering strutting propping etc., for chejjas, corbels etc., including edges including cost of all materials, labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	14.40	300	
16	Providing and removing centering, shuttering, strutting propping etc., and removal of form work for stairs (excluding landing) except spiral staircase including cost of all materials labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	24.24	513	
17	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs,landing, balconies and likes thickness upto 200mm including cost of materials, labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	468.25	594	
18	Providing and constructing pre cast concrete solid blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quoins, jamb,closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials,labour charges,scaffolding,curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	466.72	1200	
19	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames wrought, framed of assembled including making plaster grooves (excluding cost of materials, labour, HOM of machineries etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum	0.60	120000	
20	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour,HOM of machineries etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	18.90	5050	

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21	Providing and fixing M.S. grill work for windows and ventilator weighing 21kg/Sqm using M.S. flats, or M.S square rods or combination of M.S. flats and steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures labour and HOM of machinery etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	1224.72	90	
22	Providing and fixing in position anodized alluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 122.2x31.75mm with 1.2mm thick, bottom section weight of 0.695 kg per m, sides and top section of 1.3mm thick weight of 0.659 kg per m and shutter comprising top and bottom section of size 40mmx18mm , 1.25mm thick of 0.417 kg per m shutter outer side 40mmx18mm, 1.25mm thick weight of 0.417 kg per m, shutter interlock section 40mmx 26.7mm , 1.1mm thick, wieght of 0.469 kg per m the shutter mounted on nylon roller with approved quality of fixture such as alluminium tower bolts etc., and providing and fixing 5.5mm thick plain glass of shutter fitted with rubber beading alluminium section anodized 12 to 15 microns including cutting to required length, joints mitred sub dividing the frame tenonned revited in the assembled frame stiffened with end clips at corners angles etc., and fixed to walls, lintles, floor beams or cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, alluminium section pre	Sqm	60.48	4000	
23	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering: providing and removing scaffolding, including cost of materials labour curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	453.69	270	
24	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	390.72	210	
25	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	844.41	30	
26	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	498.94	300	

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27	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	383.60	3000	
28	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies terraces etc., consisting of following applications a) applying and grouting a slurry coat of neat cement using 2.75 kg per sqm of cement admixed with proprietary water proofing compound confirming to IS 2645 over the RCC slab after cleaning the surface before treatment b)laying cement concrete using broken brick bats 25mm to 100mmsize with 50% of cement mortar 1:5 admix with propreatory water proofing compound confirming IS 2645 over 20mm thick layer of cement mortar 1:5 admix with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs c)after two days of proper curing applying a second coat of cement slurry admix with preprietoray water proofing compound d) finishing the surface with 20mm joint less cement mortar of mix 1:4 admix with preprietary water proofing compond wall finally finishing the surface with travel and neat cement slurry and making of 300 x 300 mm square e the	Sqm	224.40	1000	
29	Providing and fixing on wall surface 4.0kg?Sq.cm H.D.P.E. rain down water pipes 90mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	M	100.00	460	
30	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Each	4.00	5700	
31	Providing and fixing white vitreous china clay flat back wash basin size 630x450mm with a single of 15mm C.P. brass pillar taps with C.I. /M.S. brackets 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cuttings and making good the wall and floor wherever required, including cost of materials, labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Each	4.00	3500	

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32	Providing and fixing white vitreaus china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litre PVC automatic flushing cistren, C.I./M.S bracket, standard flush pipe and c.P. brass spreaders with brass union and G.I.Clamp Complete painting of fitting and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Each	4.00	3500	
33	Providing and fixing colour glazed tiles of size 300mmx450mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	59.04	1250	
34	Providing and fixing 7.5cms to 15cms dia NP grating 100mm dia etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Each	12.00	180	
35	Providing and fixing C.I. Nahani trap of approved make conforming to ISI specificatins and constructin of Cistern in CC 1:2:4 as per directions (Rate is inclusive of cost of materials and fixture and conveyance of materials to work spot) 10cms to 7.5cms etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Each	8.00	300	
36	Providing and fixing chorinated poly venyl chloride (CPVC) pipes conforming to IS15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. this includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases & making good the same including testing of joints complete 20mm nominal OD Pipes etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	M	150.00	300	
37	Providing and fixing in position brass stop cock of approved quality15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Each	12.00	180	
38	providing and fixing in position brass gate valve with C.I. Wheel of approved quality (Screwed end) 20mm nominal bore including cost of all materials labour and HOM of Equipments with all lead etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Each	6.00	441	

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39	Providing NP/CP waste union conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Each	6.00	135	
40	Construction brick masonry inspection chamber 450x450mm and 450mm depth (clear inside dimension) for single pipes line using table mouled non-modular bricks of class designation 50 in cement mortar 1:5 C.I. cover witth frame (light duty) 450x450mm etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Nos	4.00	5771	
41	Providing and placing on terrace , polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Nos	2.00	9144	
42	Providing and applying painting two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after throughly brushing the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	844.41	97	
43	Extra for providing and applying every subsequent coat of painting with plastic emulsion paint of approved brand and shadefor Item No.15-15.1 and 15.53 cost of materials, labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	844.41	32	
44	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	498.94	91	
45	Extra for providing and applying every subsequent coat of water proofing cement paint of approved brand and shade for item No.15-16.1 cost of materials,labour, etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	498.94	29	
46	Applying priming coat over new wood surface and/ or wood based surface after preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	16.20	44	

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47	Providing and applying painting two coats (excluding priming coat) on new wood surface and/ or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour,etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	16.20	91	
48	Extra over item No.15-17.6 for applying every subsequent coat of enamel paint to give an even shade after cleaning the surface of all dirt and foreign matter, sand papering including cost of materials, labour, etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	16.20	52	
49	Providing and laying in position to required level or slope 230mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints, including cost of materials, labour charges etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Mtr	50.00	600	
50	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Sqm	25.20	7000	

Signature of Contractor

Executive Engineer
Dasarahalli Division

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